

Claims

Claim 1. (Currently amended) A surround sound display representing a plurality of sound channels comprising:

a two-dimensional surround sound stage image;

a curvilinear correlation meter scale for each sound channel of the surround sound stage image that has a corresponding sound channel to form a stereo sound source; and

markers related to the correlation meter scales that represent the correlation between the corresponding sound channels.

Claim 2. (Previously amended) The display as recited in claim 1 wherein the surround sound stage image comprises speaker images positioned at appropriate positions of the display to represent sound sources.

Claim 3. (Previously amended) The display as recited in claims 1 or 2 wherein the surround sound stage image comprises a listener image positioned in the center of the display.

Claim 4. (Previously amended) The display as recited in claim 1 wherein the correlation meter scale comprises a bent scale for each corresponding sound channel representing correlation values between +1 and -1 at opposing ends of the bent scale.

Claim 5. (Original) The display as recited in claim 4 wherein the bent scale has the +1 end centrally located along a first side of the display, the -1 end centrally located along a second side of the display, the second side being orthogonal to the first side, and a central portion representing a correlation value of 0 adjacent a corner between the first and second sides.

Claim 6. (Previously amended) The display as recited in claim 4 wherein a second bent scale representing a related stereo sound source has the +1 end centrally

located along the first side of the display adjacent the first bent scale, the -1 end centrally located along a third side of the display opposite the second side, and a central portion representing a correlation value of 0 adjacent a corner between the first and third sides.

Claim 7. (Previously amended) The display as recited in claim 1 wherein the markers comprise a pointer for each sound channel, the location of the pointer along the correlation meter scale indicating the correlation between the corresponding sound channels.

Claim 8. (Previously amended) The display as recited in claim 7 wherein the markers comprise a fill area spanning the correlation meter scales for the corresponding sound channels, the width of the fill area indicating the correlation between the corresponding sound channels.

Claim 9. (Previously amended) The display as recited in claim 8 wherein the thickness of the fill area indicates the amplitude of each sound channel.

Claim 10. (Previously amended) The display as recited in claim 1 wherein the correlation meter scales for the corresponding sound channels comprise bent scales each having a +1 value adjacent the other centrally along a first side of the display, respective -1 values centrally along opposing adjacent sides orthogonal to the first side, and 0 values adjacent respective corners between the first and each adjacent side.

Claim 11. (Previously amended) The display as recited in claim 10 wherein the markers comprise a fill area that spans the correlation meter scales and has a width and a thickness, the width indicating the correlation between the corresponding sound channels.

Claim 12. (Previously amended) The display as recited in claim 11 wherein the fill area has two contiguous portions, a first portion overlaying one of the correlation

meter scales and a second portion overlaying the other one of the correlation meter scales, the thickness of the portions indicating the amplitude of each sound channel.

Claim 13. (Previously amended) The display as recited in claim 1 wherein the markers comprise a plurality of truncated wedges, at least one of the truncated wedges having a fixed width representing a central audio source and the other truncated wedges representing the corresponding sound channels with a variable width, the variable width indicating the correlation between the corresponding sound channels.

Claim 14. (Previously amended) The display as recited in claim 13 wherein the truncated wedges representing the corresponding sound channels have a first radial edge fixed at a +1 value for each corresponding sound channel and a second radial edge variable between the +1 value and a -1 value to alter the variable width of the truncated wedges to indicate the correlation between the corresponding sound channels.

Claim 15. (Previously amended) The display as recited in claim 13 wherein the truncated wedges for the corresponding sound channels have a minimum width centered at a specified angle representing a 0 value of the correlation meter scales, and a first radial edge is fixed when the correlation is negative while a second radial edge varies to change the variable width of the truncated wedge and the second radial edge is fixed when the correlation is positive while the first radial edge varies to change the variable width of the truncated wedge.